

ANTENNAS & TRANSMISSION LINES

Antenna Coupling Unit for the WWVL Receiver (H&K)	47, June
Antenna Impedance by Direct SWR Measurement (Toia)	22, June
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Antenna Insulators From a Six-Pack (H&K) (Antenna Mount), The Renter's Delight (G&G) (Hatter & Weik)	53, Sept.
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Antenna-Rotator Heater (H&K)	47, June
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Boom-to-Mast Fitting, A Cheap (H&K)	45, July
CB Whip + Mod. = 2-Meter 5/8-Wavelength Vertical (McCoy)	34, June
Center Insulators From Plastic Plumbing Tees (H&K)	57, Oct.
Coax- and Indicator-Cable Supports for Beam Antennas (Nose)	68, Apr.
Coax Shield Separator (H&K)	50, May
DDRR Antenna, A Study of the (Dome)	27, July
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Dual-Differential Capacitor for your Antenna-Tuning Network, Build a (Boyer)	22, Oct.
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End-Fed Multiband Wires, A "Stretcher" for (Hanson)	32, July
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UHF Boom-to-Element Clamp, A (H&K)	48, Nov.
Vertical Antenna for the 75-Meter Band, A Helically Wound (Ellingson)	32, Jan.
Weatherproof Helical Antenna, Economical (H&K)	47, June
Wire Rope, On the Care of (Tech. Corres.)	56, Sept.
Yagi by W0EYE, 15-Element (World Above 50 Mc.)	96, Jan.
Zip Cord Special Antenna, A (H&K)	51, May
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Op Amp, The Ubiquitous μA 709 (Tech. Corres.)	57, Sept.
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Kearny, NJ (photo)	82, Sept.
Massachusetts	102, May
Nevada (photo)	91, Nov.
North Carolina (photo)	80, Aug.
Ohio	102, May; 87, June
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Butterworth Gets Award (photo)	77, Dec.
Call Letter License Plates	102, May; 77, July
Canada Drops Age Limit	10, Jan.; 78, July
Canada Honors Lloyd	80, Apr.
Canadian Ham Show (photo)	82, Jan.; 84, Dec.
Canadian License Figures	91, Nov.
Canadian Rules Changes	78, July
CB License Plates, Florida	77, July
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Cleveland Ham Show (photo)	87, June
Compensation of Club Operators	10, Nov.; 76, Dec.
Congressman Praises Hams	80, Aug.
Cover Plaque Awards — Summary	80, Apr.
Burr (photo)	78, Dec.
Buus (photo)	82, Apr.
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Hejhall (photo)	76, Sept.
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Lisle (photo)	83, Apr.
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Parten (photo)	69, Feb.
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Sevick (photo)	80, Dec.
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Tschannen (photo)	80, Apr.
Turris (photo)	84, Apr.
Van Zant (photo)	87, June
Cundall Gets Plaque	78, Sept.
Dannals New ARRL Prexy	74, Mar.; 11, Apr.
Dayton Old Timers (photo)	84, Apr.

Denniston IARU Nominee	74, Mar.
Diehl New Vice Director	79, Apr.
Dues Raise	10, Mar.; 10, Apr.; 10, May; 10, June
Eaton Ham of Year (photo)	85, Jan.
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Elmhurst Expo (photo)	69, Feb.
Environmental Protection	78, Dec.
Examination Schedule	84, Jan.; 68, Feb.; 75, Mar.
Executive Committee Minutes	85, Jan.; 103, May; 95, Nov.
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"Eyebank" Matter	10, Nov.; 74, Dec.
FCC Asks Congress to Change Act	85, Dec.
Field Day on Mall, W3DOS/3 (photo)	81, Sept.
Field Day Trophy, W. Va. (photo)	77, Sept.
Film for Teens	10, Feb.
Flannerty, Ham of Year (photo)	80, Sept.
Foster Retires (photo)	68, Feb.
Four-Day Week at Hq.	10, May
Future Citizens	84, Jan.; 96, Oct.
Gant New Vice Director	78, July
Garriot Picked for Skylab	75, Mar.
"Grandfathering" Denied	95, Nov.
"Ham and His World" (photos)	82, Jan.; 84, Dec.
Hampden County ARA, 25th (photo)	79, July
Handi-Helpers' Awards	97, Oct.
Hatch Retires (photo)	83, Jan.
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Hinderlieter Gets Okinawa Honor (photo)	83, Apr.
Houghton's 50th Anniversary	10, Apr.; 87, June; 78, July
Immigrants	84, Jan.; 96, Oct.
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Kentucky License Plates (photo)	102, May
License Denied	85, Jan.
License Renewals	10, Feb.
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Licenses for Parolees	86, June
Logging Rules Eased	10, 100, Oct.
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McLean Ham of Year (photo)	70, Feb.
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Mobile Portable Notice Change	10, 101, Oct.
Mobile Manual Retired	10, Sept.
Mobile Symposium	78, Apr.
Navy MARS Show (photo)	79, Sept.
New Providence ARC (photo)	79, Apr.
Obituaries:	
Roland B. Bourne, W1ANA	78, Apr.
Doug Carroll, VE3VC	85, Dec.
Edgar Collins	75, Mar.
Sumner H. Foster, W0GQ	86, June
Kenneth E. Hughes, W6CIS	86, June
Floyd E. Norwine, W0EFC	91, Nov.
William J. Schmidt, W0GU	85, Dec.
Oscar	10, Apr.; 102, May; 10, July; 10, Aug.; 78, Aug.
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Overseas, Absentee Ballots	75, Sept.
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Providence Radio Assn's 50th (photo)	104, May
QRM and Nets	86, June
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Smith, Ga. Ham of Year	75, Dec.
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Staten Island ARA, 50th (photo)	94, Nov.
Technicians' Frequencies Expand	101, Oct.

"This is Ham Radio"	10, Feb.
Tilton Retires	85, Dec.
Traffic with Pitcairn	86, June
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Van Deusen Wins Award	69, Feb.
Wagner Named Ham of Year	98, Oct.
Walker, Life Member (photo)	81, July
White, WA1NNC (photo)	68, Feb.
Wisconsin: No Tax on Ham Gear	78, July
Who the Devil is Who?	81, Aug.
Which Call to Sign?	100, Oct.
WWVH (photo)	71, Feb.
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Zak New Director	79, Apr.
Zoning Change	96, Oct.
220 MHz CB Opposed	10, 81, Apr.; 10, May

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ARRL (photo)	87, Apr.
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Canada-Brazil Reciprocity	85, June
Caribbean Scout Jamboree	84, July
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Denniston Elected IARU President	84, July
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Ernst Krenkel, RAEM	72, Feb.
F9MD (photo)	95, Oct.
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ITU Zones (map)	87, Apr.
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New U.S. Regulations	99, Nov.
Notes	86, Apr.
Okinawa Becomes JR6	105, May
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QSL Bureaus of the World	84, July
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XUIAA (photo)	92, Mar.
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CQer, The VE2HN Digital Using NAND Logic Part I - Basic Design Principles (Rugg)	33, Feb.
Digital CQer, The VE2HN Part II-Construction Notes, Programming, and Testing (Rugg)	24, Mar.
HD-10 Speaker Change, Heathkit (H&K)	52, Aug.

IC Keyer, Curing the Race Condition in an (H&K)	51, Aug.
Instant Voice Interruption, More on (Hildreth)	19, June
Integrated-Circuit Clock Oscillator for Solid-State Keyers (Tech. Corres.)	57, Mar.
Micro-To Keyer with TTL ICS, The (Tech. Corres.)	57, Sept.
Morse-Code Time Identifier, A (Pienkowski)	34, Nov.
Op-Amp Electronic Keyer, Oakley-An (Vale)	40, Oct.
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Finding DC-Milliammeter Internal Resistance, More on (Tech. Corres.)	46, Nov.
Frequency Counter for Receivers, A Simple (Hagen)	11, Dec.
(Frequency Standard) Double Standards (Blakeslee)	13, Apr.
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IC Audio Tune-Up Device for the Blind Amateur, An (G&G) (Riley)	41, June
Inexpensive Vom, Dress up that (H&K)	51, May
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Oscilloscopes, Triggered-Sweep Conversion for (Mark)	16, Dec.
SB-610 Monitor Scope, Reducing Baseline Ripple in (H&K)	46, Dec.
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Secondary-Standard Frequency Comparison with TV Color-Burst Frequency (Tech. Corres.)	46, Nov.
Sweep Generator for FM Receiver Alignment, A Simple (Fury)	48, Jan.
TTL Oscillator, More on the (Tech. Corres.)	55, Feb.
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Two-Tone Generator for Tune-Up and Test Purposes, A Simple (H&K)	48, Feb.
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COER, The VE2HN Digital Using NAND Logic, Part I - Basic Design	
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Digital Logic ICs, More on (Tech. Corres.)	53, Feb.
Do You Really Dig Transistors?	58, June
Engraver's Putty Substitute For Panels (H&K)	59, Apr.
Guy Lines, Noninductive (H&K)	48, Feb.
High-Frequency Propagation Estimations for the Radio Amateur (Hall)	14, Mar.
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Power-Transistor Template, A Simple (H&K)	51, Mar.
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SSTV, A Storage-Tube Monitor for (Smith)	34, July
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Amateur Activity in South Dakota Flood Disaster	59, Sept.
Amateur Radio Public Service Corps Alerting System	72, Aug.
Emergency Power	70, July
Got An EC?	64, Mar.
A New Emergency Advisory Committee?	83, Nov.
Is the PSRR Too EASY?	70, Sept.
Now is the Time	89, Oct.
Personal Preparedness	72, Apr.
QSP Via Satellite?	72, June
Time to Regroup	72, May
SET, Reviewing the 1972 (Connelly)	78, June

RECEIVING

Audio Hum, Elimination of Receiver (H&K)	46, July
Band-Pass CW Filters in Abundance (Tech. Corres.)	57, May
Converter Modification, 2-Meter (H&K)	55, Jan.
Converter, A "Universal" HF Receiving (Blakeslee & Zilliox)	51, Jan.
Filter for the Drake R-4B, A Crystal (G&G) (Sumner)	30, Jan.
Filter for Hum and Squeal Rejection, An Audio (The CRUD-O-Ject) (Hall & Myers)	11, Feb.
FM Receiver, A High-Performance Tunable (DeMaw)	44, Apr.
Feedback	58, May
Feedback	40, June
Feedback	47, July
Frequency Counter for Receivers, A Simple (Hagen)	11, Dec.
Local Oscillator, Transistors and ICs In a Phase-Locked (Robbins)	43, Jan.
Feedback	55, Feb.
Feedback	57, Mar.
NBFM Deviation, Setting (H&K)	46, Dec.
Overloading and Cross Modulation in Modern Receivers, Avoiding (Tech. Corres.)	57, May
Panadaptor, An Inexpensive (H&K)	46, Dec.
Preamplifier, More on the Solid-State Receiver for 75-Meter DX Work, An Experimental (Blakeslee)	41, Feb.
Feedback	47, July
R4B Cured, Drift in the (H&K)	52, Sept.
Scanner Receiver for 146 MHz, An Inexpensive (H&K)	49, Feb.
Feedback	57, Mar.
SB-303, Improving Cw Reception on the (Waters)	21, July
Single-Conversion 2-Meter Fm Receiver, A (DeMaw)	11, Aug.
Feedback	118, Oct.
Solid-State Receiver for the Novice or Beginner, A High-Performance (Kaufmann & DeMaw)	11, Oct.
Swan 260, Add AVC to Your (Sears)	20, Dec.
Sweep Generator for FM Receiver Alignment, A Simple (Fury)	48, Jan.
Transistor Radio Audio-Amplifier Oscillations Cured (H&K)	52, Sept.
220-MHz Preamplifier, WB6NMT Low-Noise (World Above 50 Mc., The)	100, Mar.
80-20 Receiver, The Super-Simple (Sowden)	26, Apr.

RECENT EQUIPMENT/NEW APPARATUS

Antec Universal Transmatch Model UT-1, The	50, Feb.
Bird Ham-Mate Directional Wattmeter	55, May
Coax- and Indicator-Cable Supports for Beam Antennas	68, Apr.
Comcraft CTR-144 Two-Meter Transceiver, The	52, May
Curtis EK-402 Electronic Keyer, The	52, Mar.
Cush-Craft FM Antennas	50, Jan.
Dycorn PSU-13 VHF Scaler	58, Jan.
Hal Devices 1550 Keyer with Station Identifier, The	44, Dec.
Heath Company IM-103 Line Voltage Monitor	54, Sept.
Heath Frequency Display Model SB-650	56, Aug.
Heath IM-102 Digital Multimeter, The	50, Oct.
Heath Model IB-102 Frequency Scaler	51, Feb.
Heath SB-610 Monitorscope	49, July
Heathkit Model 10-102 Oscilloscope	51, June
Heath HW-101 SSB Transceiver, The	59, Jan.
Henry Radio 2K Ultra Amplifier, The	53, June
HUA Electronics Frequency Counter Model 1BV-1a	60, Apr.
Jackson Brothers Drive	47, Aug.
KW Electronics KW107 Supermatch	48, July
KW Electronics Model KW 103 SWR/Power Meter	55, Sept.
Filter for FM Receivers, New 10.7-MHz	56, June
Murch UT-2000 Ultimate Transmatch, The	43, Dec.
Sonar 2307 Transistorized Portable Radiotelephone	54, Mar.
Sonar FM-3601 Amateur FM Transmitter-Receiver	53, Aug.
Sonar Sentry FM/A-M Monitor Receiver, Model FR-103SA	53, Oct.
Weinschel Engineering System I Triband Yagi	41, Dec.

REGULATIONS

Amateur Radio - Privilege and Responsibility (Walker)	58, July
FCC's Amateur Chief, Comments by	71, Mar.
FCC Amateur Chief Visits North Texas	72, Mar.
New Amateur Rules . . . The	89, Nov.
New Repeater Rules!	100, Oct.
Nor for its use	61, Dec.
Phone Band Expansion	78, Nov.

RTTY

Audio Synthesizer, An (Drake, Jr.)	35, Apr.
Audio Synthesizer for RTTY, Notes on the (Tech. Corres.)	46, Nov.
Fast VanGeen Transform in an Audio "Spectrum Analyzer", The FVGT Box (Olson & VanGeen)	21, Nov.
Local Loop, The Modern Teleprinter (Merritt)	40, Jan.
Recording RTTY on Magnetic Tape (H&K)	49, Feb.

SATELLITES

Amateur Aboard Skylab! (Happenings of the Month)	75, Mar.
Amateur Radio Public Service Corps (Hart)	
QSP Via Satellite?	72, June
Are you ready . . . for the Coming DX Openings? (Dunkerley)	58, Mar.
. . . But Ham Station Nixed (Happenings of the Month)	75, Mar.
"Houston, This is Apollo . . ." (Wilson & Knadle)	60, June
How to Get Ready for Oscar DX (Dunkerley)	69, May
How to Predict Oscar DX (Dunkerley)	61, Oct.
Late Oscar Notes	55, Nov.
Oscar News	58, Dec.
Oscar Gets FCC Okays (Happenings of the Month)	102, May
Oscar 6 Bibliography (Dunkerley)	61, Oct.
Oscar 6 Launch in November (Happenings of the Month)	78, Aug.
Power Violations Re Oscar	68, Dec.
Satellites and the SS	55, Nov.

TECHNICAL PRINCIPLES & APPLICATIONS

DDRR Antenna, A Study of the (Dome)	27, July
High-Frequency Propagation Estimations for the Radio Amateur (Hall)	14, Mar.
Noise, High-Frequency Atmospheric Part II - Some Simple HF Atmospheric Noise Experiments (Graf & Clinch)	16, Feb.
Propagation Indicators, Using TV Station Video Carriers as (World Above 50 Mc., The)	76, Feb.
(The Simulmonitor-) Repeater Inputs, A new Approach to (Kowols)	21, Jan.
Solid-State Power-Amplifier Design, Fundamentals of Part I (Johnson & Artigo)	29, Sept.
Standard Values?, Why Not Use the (Lind)	44, Aug.
UHF Kilowatt Amplifier at Work, Danger!! (Tech. Corres.)	56, Mar.
WWVL, Sunrise-Sunset Effects on Signals From (Tech. Corres.)	54, Feb.

TRANSCIEVERS

AC Supply for Low-Power Transceivers (H&K)	46, Dec.
Flashlight Sideband, The, Part I (Burr)	11, July
Feedback	58, Sept.
Flashlight Sideband, The, Part II (Burr)	27, Aug.
HR-2, Auxiliary Speaker for Regency (H&K)	50, May
HR-2 Relay, Contact Pitting On (H&K)	51, Mar.
HW-16 on 20 Meters, Putting the (H&K)	51, Aug.
HW-101, Tone-Oscillator Repair on (H&K)	53, Sept.
Pip-Squeak Modifications, Some (H&K)	50, Mar.
QRP Operation, Some Tips on Successful (Stecker)	11, Nov.
Swan 260, Add AVC to Your (Sears)	20, Dec.

Ten-Tec Power-Amplifier Replacements (H&K)	51, Aug.
Ultraportable Cw Station, An, The Mountaineer (Hayward & White)	23, Aug.
Feedback	33, Nov.
Ventilation and Tube Life for the Gladding 25, Better (H&K)	51, Aug.

TRANSMITTING

Amplifier Design, "Easy" (Tech. Corres.)	47, Nov.
Amplifier Using the 8874, A 144-MHz (Rinaudo)	24, Jan.
Broadband Solid-State Power Amplifiers for SSB Service (Hejhall)	36, Mar.
Converter for 220 MHz, An SSB and CW Transmitting (Watters)	11, Mar.
Heath VF-1, VFO, New Life for the (Glorioso)	18, Dec.
Idle-Current Hash in Amplifiers, Elimination of (H&K)	52, Aug.
RF Power Monitor for VHF and UHF, An, The Line Sampler (McMullen)	21, Apr.
SSB Transmitter for 14 MHz, A 90-Watt (Hybrid Quacker Box) (Blakeslee & Zilliox)	27, Feb.
Feedback	57, Mar.
Solid-State Transmitter, Increased Power for the (Hayward)	19, May.
Strip-Line Kilowatt Amplifier for 432 MHz, A, Part I - Design Features and Construction (Knadle, Jr.)	49, Apr.
Strip-Line Kilowatt Amplifier for 432 MHz, A, Part II - Power Supplies, Performance, and Safety Measures (Knadle, Jr.)	59, May
Varactor Quintupler for 220 MHz, A (McMullen)	11, Jan.
VXO Design, Some Practical Aspects of (DeMaw)	11, May
100 Watts on 160 Meters, Using a BC-458 (Barnes)	45, Oct.
220 MHz, A Coaxial-Line Amplifier for (Watters)	27, May

VHF & MICROWAVES

ATV with the Motorola T 44 UHF Transmitter, Part I (McLeod, Jr.)	28, Dec.
Amplifier Using the 8874, A 144-MHz (Rinaudo)	24, Jan.
Avalanche Transistor, A Frequency Calibrator for Uhf Using an (Andrews)	16, May
Carfone FM Rig, A New Face for the (DeMaw)	22, Feb.
Compact Converter for 220-MHz, A, 450 Cubic Centimeters of New Front End for Your Fm Receiver (McMullen)	11, June
Converter for 220 MHz, An SSB and CW Transmitting (Watters)	11, Mar.
Converter Modification, 2-Meter (H&K)	55, Jan.
Duplexer for 2-Meter Repeaters, A Homemade (Bilodeau)	22, July
Fm Receiver, A High-Performance Tunable (DeMaw)	44, Apr.
Feedback	58, May
Feedback	40, June
Feedback	47, July
(Frequency Standard) Double Standards (Blakeslee)	13, Apr.

Multiband FM, A "State-of-the-Art" Approach to (Gerig)	46, Sept.
Oscillator and Audio Circuits for 50 and 220 MHz, Wide-Band Fm with Crystal Control (Hadlock)	17, Oct.
Pip-Squeak Follower for 220 MHz, A (McMullen)	38, July
Pip-Squeak Gets Smaller, The (DeMaw)	37, Sept.
Feedback	33, Nov.
RF Power Monitor for VHF and UHF, An, The Line Sampler (McMullen)	21, Apr.
Repeater Gear, Notes on Custom-Built (DeMaw)	38, Dec.
Scanner Receiver for 146 MHz, An Inexpensive (H&K)	49, Feb.
Feedback	57, Mar.
(Simulmonitor, The) Repeater Inputs, A New Approach to (Kowols)	21, Jan.
Single-Conversion 2-Meter Fm Receiver, A (DeMaw)	11, Aug.
Feedback	118, Oct.
Strip-Line Kilowatt Amplifier for 432 MHz, A, Part I - Design Features and Construction (Knadle, Jr.)	49, Apr.
Strip-Line Kilowatt Amplifier for 432 MHz, A, Part II - Power Supplies, Performance, and Safety Measures (Knadle, Jr.)	59, May
Sweep Generator for FM Receiver Alignment, A Simple (Fury)	48, Jan.
Tone-Acces Repeaters, A Simple Method for Keying (H&K)	48, Feb.
Twelve-Foot Stressed Parabolic Dish, A (Knadle, Jr.)	16, Aug.
UHF Kilowatt Amplifier at Work, Danger!! (Tech. Corres.)	56, Mar.
Unique High-Q Filter, Taking out the 2-Meter Garbage (Moler)	48, June
Varactor Quintupler for 220 MHz, A (McMullen)	11, Jan.
World Above 50 Mc., The Yagi by WØEYE, 15-Element	96, Jan.
Propagation Indicators, Using TV Station Video Carriers as	76, Feb.
220-MHz Preamplifier, WB6NMT Low-Noise	100, Mar.
WØEYE 432 Yagi Correction	101, Mar.
Tropo and CAT	90, Apr.
Practical 432-MHz EME	111, May
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August Aurora	114, Oct.
Wide-Band Low-Noise Preamplifier, W6FZJ	112, Nov.
Updating the Quadhelix for 1296 MHz	88, Dec.
2-Meter Preamplifier for Repeaters, A (DeMaw)	18, July
2-Meter Solid-State Rf Power-Amplifier Circuits, Some (Hejhall)	40, May
75-Watt, Solid-State, UHF Amplifier, A (Buscemi)	31, Oct.
220 MHz, A Coaxial-Line Amplifier for (Watters)	27, May
220 MHz, A 10-Element Yagi (G&G) (Wooten)	24, Apr.
432-MHz Transmitter, Reducing Oscillator Drift in A (H&K)	58, Apr.
Feedback	47, July
\$3 Push-up Mast for VHF, A (H&K)	56, Oct.

